#### Taller # 2 – Proyecto Integrador 1 – Sergio Andrés Córdoba Muriel

- 1. Repositorio: <a href="https://github.com/sergiocordobam/Machine-Learning">https://github.com/sergiocordobam/Machine-Learning</a>
- 2. Archivo train.ipynb (modelo InceptionV3):

```
base model = tf.keras.applications.InceptionV3(
        include top=False,
        weights="imagenet",
        input_tensor=None,
        input_shape=(150,150,3),
        pooling=None,
        classes=1000,
        classifier activation="softmax",
    base_model.trainable = False
Downloading data from <a href="https://storage.googleapis.com/tensorflow/keras-applications/inception">https://storage.googleapis.com/tensorflow/keras-applications/inception</a>
    87916544/87910968 [========] - 1s @us/step
    87924736/87910968 [=========== ] - 1s Ous/step
[ ] inputs = keras.Input(shape = (150,150,3))
    x = tf.keras.applications.inception_v3.preprocess_input(inputs)
    x = base_model(x, training=False)
    x = keras.layers.GlobalAveragePooling2D()(x)
    x = keras.layers.Dropout(0.2)(x)
    outputs = keras.layers.Dense(1)(x)
    model = keras.Model(inputs,outputs)
[ ] inputs = keras.Input(shape = (150,150,3))
     x = tf.keras.applications.inception_v3.preprocess_input(inputs)
     x = base_model(x, training=False)
      x = keras.layers.GlobalAveragePooling2D()(x)
     x = keras.layers.Dropout(0.2)(x)
      outputs = keras.layers.Dense(1)(x)
      model = keras.Model(inputs,outputs)
 model.compile(optimizer='adam', loss =
      tf.keras.losses.BinaryCrossentropy(from_logits = True),metrics =
      keras.metrics.BinaryAccuracy())
      model.fit(training_set, epochs = 20, validation_data = validation_set)
```

#### 3. Pantallazos app Django:

# Welcome to the Pet Classifier App

Seleccionar archivo Sin archivos seleccionados



dog prob 2.38181328313658e-05, cat prob 0.9999761581420898

# Welcome to the Pet Classifier App

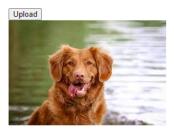
Seleccionar archivo Sin archivos seleccionados



dog prob 6.911754553584615e-06, cat prob 0.999993085861206

#### Welcome to the Pet Classifier App

Seleccionar archivo Sin archivos seleccionados



dog prob 0.9983475804328918, cat prob 0.0016524195671081543

# Welcome to the Pet Classifier App

Seleccionar archivo Sin archivos seleccionados



dog prob 0.891211986541748, cat prob 0.10878801345825195